

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 South Dry Creek	Left	3.81	11/01/2018 11/01/2018	Sterling York

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD0817_01_f_2014_5				
Comment Code					
Inspector Comment					
LMA regularly attends flood fight training put on by RD784 and DWR .					

No Photos

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD0817_01_s_2013_9				
Comment Code					
Inspector Comment					
The manuals are located at Tom Englers office and at Joe Conant's office.					

No Photos

LM Start		Rating **	A	Issue No.	10
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD0817_01_s_2013_10				
Comment Code					
Inspector Comment					
LMA stated that they have approx. 2500 sandbags and related flood fight material located in a mini storage in downtown Wheatland.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 0817 Carlin

View looking downstream waterside of the well maintained annual vegetation, Fall 2018.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 South Dry Creek	Left	3.81	11/01/2018 11/01/2018	Sterling York

LM Start	0.29	Rating **	M	Issue No.	28	
LM End	0.29	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.987813 °		38.987813 °
				-121.502963 °		-121.502963 °
DWR ID	18985					
Comment Code						
Inspector Comment						
FS_ID:42685 DS_ID:18985 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 04/16/2013 Dense vegetation on waterward and landward slopes limit visual inspection of potential leaks along pipe alignment. Recommend having owner clear vegetation along slopes. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 48-inch corrugated metal gravity drainage pipe through the levee, 23.3 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 146, November 1962, (HLM 0.28)]. FS Date: 4/16/2013						

Photo 1 of 3 : UCIP\_FA\_2018\_42685\_19865.jpg



WS- pipe, flap gate in dense vegetation on berm

LM Start	<b>0.29</b>	Rating **	M	Issue No.	<b>28 (cont)</b>
LM End	<b>0.29</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_42685\_19864.jpg



WS- CM pipe and flap gate

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 South Dry Creek	Left	3.81	11/01/2018 11/01/2018	Sterling York

LM Start	0.29	Rating **	M	Issue No.	28 (cont)	
LM End	0.29	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.987813 °		38.987813 °
				-121.502963 °		-121.502963 °
DWR ID	18985					
Comment Code						
Inspector Comment						
FS_ID:42685 DS_ID:18985 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 04/16/2013 Dense vegetation on waterward and landward slopes limit visual inspection of potential leaks along pipe alignment. Recommend having owner clear vegetation along slopes. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 48-inch corrugated metal gravity drainage pipe through the levee, 23.3 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 146, November 1962, (HLM 0.28)]. FS Date: 4/16/2013						

Photo 3 of 3 : UCIP\_FA\_2018\_42685\_19863.jpg



WS- dense vegetation on WS of the levee

LM Start	1.34	Rating **	M	Issue No.	36	
LM End	1.34	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.997961 °	38.997961 °	
				-121.488455 °	-121.488455 °	
DWR ID	18987					
Comment Code						
Inspector Comment						
FS_ID:41153						
DS_ID:18987						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 04/16/2013 Damaged slide gate on WS of the levee.						
Need to contact owner to determine status of crossing. If crossing is no						
longer in use owner will need to contact CVFPB to comply with Title 23.						
Dense vegetation on waterward and landward slopes limit visual						
inspection of potential leaks along pipe alignment. Recommend having						
owner clear vegetation along slopes. (P. Amatya - DWR UCIP)						
FIELD_STRUCT_DESC: *ABANDONED* 18-inch corrugated metal						
gravity drainage pipe through the levee, 14.9 feet below the crown.						
Slide gate on the waterside (WS) end. [Additional Reference(s): DWR						
Levee Log, 2005. USACE Sacramento O&M Manual 146, November						
1962, (HLM 1.34)].						
FS Date: 4/16/2013						

Photo 1 of 3 : UCIP\_FA\_2018\_41153\_19882.jpg



WS- overview of WS area

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 South Dry Creek	Left	3.81	11/01/2018 11/01/2018	Sterling York

LM Start	1.34	Rating **	M	Issue No.	36 (cont)	
LM End	1.34	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.997961 °	38.997961 °	
				-121.488455 °	-121.488455 °	
DWR ID	18987					
Comment Code						
Inspector Comment						
FS_ID:41153 DS_ID:18987 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 04/16/2013 Damaged slide gate on WS of the levee. Need to contact owner to determine status of crossing. If crossing is no longer in use owner will need to contact CVFPB to comply with Title 23. Dense vegetation on waterward and landward slopes limit visual inspection of potential leaks along pipe alignment. Recommend having owner clear vegetation along slopes. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 18-inch corrugated metal gravity drainage pipe through the levee, 14.9 feet below the crown. Slide gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 146, November 1962, (HLM 1.34)]. FS Date: 4/16/2013						

LM Start	<b>1.34</b>	Rating **	M	Issue No.	<b>36 (cont)</b>
LM End	<b>1.34</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_41153\_19881.jpg



WS- closer look at damaged slide gate on WS

Photo 3 of 3 : UCIP\_FA\_2018\_41153\_19884.jpg



LS- CMP on toe of the levee.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 South Dry Creek	Left	3.81	11/01/2018 11/01/2018	Sterling York

LM Start	1.62	Rating **	M	Issue No.	37
LM End	1.62	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.001340 °	39.001340 °
				-121.485740 °	-121.485740 °
DWR ID	18988				
Comment Code					
Inspector Comment					
FS_ID:41157 DS_ID:18988 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 04/16/2013 A buried slide gate on WS of the levee. Need to contact owner to determine status of crossing. If crossing is no longer in use owner will need to contact CVFPB to comply with Title 23. Dense vegetation on waterward and landward slopes limit visual inspection of potential leaks along pipe alignment. Recommend having owner clear vegetation along slopes. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 18-inch corrugated metal gravity drainage pipe through the levee, 13.8 feet below the crown. Slide gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 146, November 1962, (HLM 1.62)]. FS Date: 4/16/2013					

LM Start	<b>1.62</b>	Rating **	M	Issue No.	<b>37 (cont)</b>
LM End	<b>1.62</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_41157\_19892.jpg



WS- overview of WS berm

Photo 2 of 3 : UCIP\_FA\_2018\_41157\_19891.jpg



WS- slide gate

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 South Dry Creek	Left	3.81	11/01/2018 11/01/2018	Sterling York

LM Start	1.62	Rating **	M	Issue No.	37 (cont)	
LM End	1.62	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.001340 °	39.001340 °	
				-121.485740 °	-121.485740 °	
DWR ID	18988					
Comment Code						
Inspector Comment						
FS_ID:41157						
DS_ID:18988						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 04/16/2013 A buried slide gate on WS of the levee. Need to contact owner to determine status of crossing. If crossing is no longer in use owner will need to contact CVFPB to comply with Title 23. Dense vegetation on waterward and landward slopes limit visual inspection of potential leaks along pipe alignment. Recommend having owner clear vegetation along slopes. (P. Amatya - DWR UCIP)						
FIELD_STRUCT_DESC: *ABANDONED* 18-inch corrugated metal gravity drainage pipe through the levee, 13.8 feet below the crown. Slide gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 146, November 1962, (HLM 1.62)].						
FS Date: 4/16/2013						

Photo 3 of 3 : UCIP\_FA\_2018\_41157\_19890.jpg



WS- buried slide gate

LM Start	2.96	Rating **	M	Issue No.	47
LM End	2.96	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.012552 °	39.012552 °
				-121.466538 °	-121.466538 °
DWR ID	18992				
Comment Code					
Inspector Comment					
FS_ID:43946					
DS_ID:18992					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 03/26/2015 Flapgate in closed position, but blocked from operation on WS toe. Pipe appears abandoned and should be verified as having been done so properly. (W. Wylie - DWR UCIP)					
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 13.7 feet below the crown. Slide gate on the waterside (WS) end. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 146, November 1962, (HLM 2.97)].					
FS Date: 3/26/2015					

Photo 1 of 3 : UCIP\_FA\_2018\_43946\_73422.jpg



Pipe and flapgate visible on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 South Dry Creek	Left	3.81	11/01/2018 11/01/2018	Sterling York

LM Start	2.96	Rating **	M	Issue No.	47 (cont)	
LM End	2.96	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.012552°	39.012552°	
				-121.466538°	-121.466538°	
DWR ID	18992					
Comment Code						
Inspector Comment						
FS_ID:43946						
DS_ID:18992						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 03/26/2015 Flapgate in closed position, but blocked from operation on WS toe. Pipe appears abandoned and should be verified as having been done so properly. (W. Wylie - DWR UCIP)						
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 13.7 feet below the crown. Slide gate on the waterside (WS) end. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 146, November 1962, (HLM 2.97)].						
FS Date: 3/26/2015						

LM Start	<b>2.96</b>	Rating **	M	Issue No.	<b>47 (cont)</b>
LM End	<b>2.96</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_43946\_73421.jpg



Pipe and flapgate visible on WS toe.

Photo 3 of 3 : UCIP\_FA\_2018\_43946\_73420.jpg



LS of pipe buried but alignment would place LS outlet just left of telephone pole on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Bear River	Right	3.86	11/01/2018 11/01/2018	Sterling York

LM Start	0.00	Rating **	A	Issue No.	10
LM End	3.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.984668 °	38.993136 °
				-121.506107 °	-121.437905 °
DWR ID	DWR_RD0817_02_f_2018_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD0817\_13\_10\_20181107\_00025.jpg



View looking upstream waterside of the well maintained annual vegetation, Fall 2018.

LM Start	0.00	Rating **	A	Issue No.	9
LM End	3.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.984668 °	38.993136 °
				-121.506106 °	-121.437905 °
DWR ID	DWR_RD0817_02_f_2018_9				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD0817\_13\_9\_20181107\_00026.jpg



View looking upstream landside of the well maintained annual vegetation, Fall 2018.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

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**Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Bear River	Right	3.86	11/01/2018 11/01/2018	Sterling York

LM Start	1.47	Rating **	M	Issue No.	15
LM End	1.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.986563 °	38.986563 °
				-121.479509 °	-121.479509 °
DWR ID	DWR_RD0817_02_f_2016_15				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Sink hole were old stump was needs to be backfilled and compacted.					

Photo 1 of 1 : FA\_2018\_RD0817\_13\_15\_20180918\_00011.jpg



View of a sink hole were old stump was. This needs to be backfilled and compacted.

LM Start	2.08	Rating **	A/W	Issue No.	13	
LM End	3.18	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.989338	°	38.994124
				-121.468640	°	-121.449448
DWR ID	DWR_RD0817_02_f_2017_13					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:162						
Site Designation:DWR_RD0817_02_s_2012_10						
Repair Type: Stability						
Rating:Area of Concern						
Field Date:6/5/2017						
Notes: Stability issues are due to levee geometry. Narrow steep slopes.						

Photo 1 of 3 : LEVAL\_FA\_2018\_162\_287.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Bear River	Right	3.86	11/01/2018 11/01/2018	Sterling York

LM Start	<b>2.08</b>	Rating **	A/W	Issue No.	<b>13 (cont)</b>
LM End	<b>3.18</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.989338°	38.994124°	
			-121.468640°	-121.449448°	
DWR ID	DWR_RD0817_02_f_2017_13				

Comment Code

Inspector Comment

Levee Evaluation Comments

Description:

Site ID No:162

Site Designation:DWR\_RD0817\_02\_s\_2012\_10

Repair Type: Stability

Rating:Area of Concern

Field Date:6/5/2017

Notes: Stability issues are due to levee geometry. Narrow steep slopes.

LM Start	<b>2.08</b>	Rating **	A/W	Issue No.	<b>13 (cont)</b>
LM End	<b>3.18</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2018\_162\_288.jpg



Photo 3 of 3 : LEVAL\_FA\_2018\_162\_289.jpg



**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Bear River	Right	3.86	11/01/2018 11/01/2018	Sterling York

LM Start	2.72	Rating **	A/W	Issue No.	14 (cont)
LM End	2.74	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.992170 °	38.992217 °
				-121.457332 °	-121.456967 °
DWR ID	DWR_RD0817_02_f_2017_14				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:161					
Site Designation:240-3					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:6/5/2017					
Notes: No issue found. Narrow levee with steep slopes. Did not investigate bench due to rattlesnake concerns. Possible alternate location at 38.993282; -121.451562.					

Photo 3 of 3 : LEVAL\_FA\_2018\_161\_291.jpg



LM Start	3.63	Rating **	A/W	Issue No.	17
LM End	3.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.992774 °	38.992774 °
				-121.441323 °	-121.441323 °
DWR ID	DWR_RD0817_02_f_2016_17				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 South Dry Creek	Right	1.32	11/01/2018 11/01/2018	Sterling York

LM Start	0.25	Rating **	A	Issue No.	13
LM End	1.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.987591 °	38.996883 °
				-121.506622 °	-121.491935 °
DWR ID	DWR_RD0817_03_f_2018_13				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					
The crown has been resurfaced with aggregate base, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD0817\_14\_13\_20181107\_00032.jpg



View looking downstream crown that has been resurfaced with aggregate base, Fall 2018.

LM Start	0.25	Rating **	A	Issue No.	10
LM End	1.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.987590 °	38.996883 °
				-121.506622 °	-121.491936 °
DWR ID	DWR_RD0817_03_f_2018_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD0817\_14\_10\_20181107\_00030.jpg



View looking downstream waterside of the annual vegetation that is well maintained, Fall 2018.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 South Dry Creek	Right	1.32	11/01/2018 11/01/2018	Sterling York

LM Start	0.25	Rating **	A	Issue No.	12
LM End	1.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.987594 °	38.996883 °
				-121.506616 °	-121.491936 °
DWR ID	DWR_RD0817_03_f_2018_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD0817\_14\_12\_20181107\_00031.jpg



View looking downstream landside of the annual vegetation that is well maintained, Fall 2018.

LM Start	0.25	Rating **	C	Issue No.	11
LM End	1.56	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.987584 °	39.000521 °
				-121.506609 °	-121.490617 °
DWR ID	DWR_RD0817_03_s_2017_11				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					
More road base should be placed on the crown, Spring 2018.					

No Photos

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 South Dry Creek	Right	1.32	11/01/2018 11/01/2018	Sterling York

LM Start	0.27	Rating **	M	Issue No.	21
LM End	0.27	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.987762 °	38.987762 °
				-121.506271 °	-121.506271 °
DWR ID	22949				

**Comment Code**

**Inspector Comment**

FS\_ID:50231  
DS\_ID:22949  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 06/30/2016 Vegetation has been cleared at outlet enough to allow the flapgate to open by half a foot. Recommend rechecking WS outlet prior to flood season to ensure no overgrowth. Dense vegetation at LS but pipe still functional. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)02/27/2013 Flap gate partially blocked by vegetation at outlet. (G. Wylie - FPIIB) FIELD\_STRUCT\_DESC: 18-inch corrugated metal gravity drainage pipe through the levee, 19.5 feet below the crown. Flap gate and headwall on the waterside (WS) end, headwall not found in 2016. (Due to a recent change in the levee alignment, this pipe is no longer in RD0784, Unit 6. Nevertheless, this pipe's original references remain in the RD0784 Levee Log and O&M Manual). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 145.1, August 1955, (Station 21+35), As-Built Drawing No. 2-4-106, Sheet 2, (Station 21+35)].  
FS Date: 6/30/2016 9:02:00 AM

LM Start	<b>0.27</b>	Rating **	M	Issue No.	<b>21 (cont)</b>
LM End	<b>0.27</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_50231\_54271.jpg



Pipe at LS toe

Photo 2 of 3 : UCIP\_FA\_2018\_50231\_54270.jpg



Outlet in brush at WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 South Dry Creek	Right	1.32	11/01/2018 11/01/2018	Sterling York

LM Start	0.27	Rating **	M	Issue No.	21 (cont)	
LM End	0.27	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.987762 °	38.987762 °	
				-121.506271 °	-121.506271 °	
DWR ID	22949					
Comment Code						
Inspector Comment						
FS_ID:50231 DS_ID:22949 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 06/30/2016 Vegetation has been cleared at outlet enough to allow the flapgate to open by half a foot. Recommend rechecking WS outlet prior to flood season to ensure no overgrowth. Dense vegetation at LS but pipe still functional. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)02/27/2013 Flap gate partially blocked by vegetation at outlet. (G. Wylie - FPIIB) FIELD_STRUCT_DESC: 18-inch corrugated metal gravity drainage pipe through the levee, 19.5 feet below the crown. Flap gate and headwall on the waterside (WS) end, headwall not found in 2016. (Due to a recent change in the levee alignment, this pipe is no longer in RD0784, Unit 6. Nevertheless, this pipe's original references remain in the RD0784 Levee Log and O&M Manual). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 145.1, August 1955, (Station 21+35), As-Built Drawing No. 2-4-106, Sheet 2, (Station 21+35)]. FS Date: 6/30/2016 9:02:00 AM						

Photo 3 of 3 : UCIP\_FA\_2018\_50231\_54269.jpg



Flap gate blocked by vegetation on WS toe.

LM Start	0.32	Rating **	C	Issue No.	8
LM End	0.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.988147 °	38.990621 °
				-121.505500 °	-121.500680 °
DWR ID	DWR_RD0784_06_f_2012_8				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense berry bushes and other wild growth along slope have been removed, Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 South Dry Creek	Right	1.32	11/01/2018 11/01/2018	Sterling York

LM Start	0.53	Rating **	C	Issue No.	4
LM End	0.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.989855 °	38.990621 °
				-121.502229 °	-121.500676 °
DWR ID	DWR_RD0817_03_s_2015_4				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trees have been trimmed for access and visibility. Fall 2018.					

No Photos

LM Start	0.53	Rating **	C	Issue No.	18
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.989855 °	38.991990 °
				-121.502228 °	-121.498536 °
DWR ID	DWR_RD0817_03_s_2017_18				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Black Berry bushes and other wild growth were taking over landside slope have been removed, Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 South Dry Creek	Right	1.32	11/01/2018 11/01/2018	Sterling York

LM Start	0.54	Rating **	U	Issue No.	23
LM End	0.54	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.989915 °	38.989915 °
				-121.502113 °	-121.502113 °
DWR ID	22950				

**Comment Code**

**Inspector Comment**

FS\_ID:53420

DS\_ID:22950

EP\_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/30/2018 Same as last inspection. Pipe has several sections of wall missing throughout the pipe length, and there is significant pipe deformation on the LS. Spoke with Tom Engler (MBK Engeers), District Engineer, and he mentioned that a video inspection has been completed at this site and that a report is in progress. LMA will be seeking funding for pipe repair under DWR's Deferred Maintenance Project (DMP). Crossing remains Urgent due to the deteriorated condition of the pipe. (O. Magana - DWR UCIP)06/30/2016 Holes still present through pipe on corroded landside (LS) end. Pipe still half full of debris as visible thru LS end. Good candidate for removal via DWR's Deferred Maintenance Program. WS vegetation cleared in the immediate vicinity of flapgate. Potential for overgrowth at WS end nevertheless imminent. Note that this pipe does not cause LS nuisance flooding per Tom Engler of MBK. (K. Fazel - UCIP)03/25/2013 Pipe heavily corroded and failing at inlet an outlet. (G. Wylie - FPIIB)

FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 20.5 feet below the crown. Flap gate and headwall on the waterside (WS) end. (Due to a recent change in the levee alignment, this pipe is no longer in RD0784, Unit 6. Nevertheless, this pipe's original references remain in the RD0784 Levee Log and O&M Manual). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 145.1, August 1955, (Station 35+57), As-Built Drawing No. 2-4-106, Sheet 4, (Station 35+57)].

FS Date: 10/30/2018 1:50:00 PM

Photo 1 of 3 : UCIP\_FA\_2018\_53420\_53849.jpg



Pipe on LS toe corroded through.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 South Dry Creek	Right	1.32	11/01/2018 11/01/2018	Sterling York

LM Start	<b>0.54</b>	Rating **	U	Issue No.	<b>23 (cont)</b>
LM End	<b>0.54</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.989915 °	38.989915 °
				-121.502113 °	-121.502113 °
DWR ID	22950				

**Comment Code**

**Inspector Comment**

FS\_ID:53420

DS\_ID:22950

EP\_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/30/2018 Same as last inspection. Pipe has several sections of wall missing throughout the pipe length, and there is significant pipe deformation on the LS. Spoke with Tom Engler (MBK Engeers), District Engineer, and he mentioned that a video inspection has been completed at this site and that a report is in progress. LMA will be seeking funding for pipe repair under DWR's Deferred Maintenance Project (DMP). Crossing remains Urgent due to the deteriorated condition of the pipe. (O. Magana - DWR UCIP)06/30/2016 Holes still present through pipe on corroded landside (LS) end. Pipe still half full of debris as visible thru LS end. Good candidate for removal via DWR's Deferred Maintenance Program. WS vegetation cleared in the immediate vicinity of flapgate. Potential for overgrowth at WS end nevertheless imminent. Note that this pipe does not cause LS nuisance flooding per Tom Engler of MBK. (K. Fazel - UCIP)03/25/2013 Pipe heavily corroded and failing at inlet an outlet. (G. Wylie - FPIIB)

FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 20.5 feet below the crown. Flap gate and headwall on the waterside (WS) end. (Due to a recent change in the levee alignment, this pipe is no longer in RD0784, Unit 6. Nevertheless, this pipe's original references remain in the RD0784 Levee Log and O&M Manual). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 145.1, August 1955, (Station 35+57), As-Built Drawing No. 2-4-106, Sheet 4, (Station 35+57)].

FS Date: 10/30/2018 1:50:00 PM

Photo 2 of 3 : UCIP\_FA\_2018\_53420\_53848.jpg



Pipe Heavily corroded throughout

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 South Dry Creek	Right	1.32	11/01/2018 11/01/2018	Sterling York

LM Start	0.54	Rating **	U	Issue No.	23 (cont)	
LM End	0.54	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.989915 °	38.989915 °	
				-121.502113 °	-121.502113 °	
DWR ID	22950					
Comment Code						
Inspector Comment						
FS_ID:53420 DS_ID:22950 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/30/2018 Same as last inspection. Pipe has several sections of wall missing throughout the pipe length, and there is significant pipe deformation on the LS. Spoke with Tom Engler (MBK Engeers), District Engineer, and he mentioned that a video inspection has been completed at this site and that a report is in progress. LMA will be seeking funding for pipe repair under DWR's Deferred Maintenance Project (DMP). Crossing remains Urgent due to the deteriorated condition of the pipe. (O. Magana - DWR UCIP)06/30/2016 Holes still present through pipe on corroded landside (LS) end. Pipe still half full of debris as visible thru LS end. Good candidate for removal via DWR's Deferred Maintenance Program WS vegetation cleared in the immediate vicinity of flapgate. Potential for overgrowth at WS end nevertheless imminent. Note that this pipe does not cause LS nuisance flooding per Tom Engler of MBK. (K. Fazel - UCIP)03/25/2013 Pipe heavily corroded and failing at inlet an outlet. (G. Wylie - FPIIB) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 20.5 feet below the crown. Flap gate and headwall on the waterside (WS) end. (Due to a recent change in the levee alignment, this pipe is no longer in RD0784, Unit 6. Nevertheless, this pipe's original references remain in the RD0784 Levee Log and O&M Manual). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 145.1, August 1955, (Station 35+57), As-Built Drawing No. 2-4-106, Sheet 4, (Station 35+57)]. FS Date: 10/30/2018 1:50:00 PM						

Photo 3 of 3 : UCIP\_FA\_2018\_53420\_53847.jpg



Pipe no longer mounted to headwall at WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 South Dry Creek	Right	1.32	11/01/2018 11/01/2018	Sterling York

LM Start	0.55	Rating **	C	Issue No.	20
LM End	0.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.989976 °	38.990403 °
				-121.501970 °	-121.501110 °
DWR ID	DWR_RD0817_03_s_2017_20				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Trees and dense bushes have been removed from levee slope, Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 South Dry Creek	Right	1.32	11/01/2018 11/01/2018	Sterling York

LM Start	0.68	Rating **	U	Issue No.	24
LM End	0.68	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.991062 °	38.991062 °
				-121.499886 °	-121.499886 °
DWR ID	22951				
Comment Code					
Inspector Comment					
FS_ID:53421 DS_ID:22951 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/30/2018 Same as last inspection. Pipe wall has corroded significantly (pipe wall missing) at the outlet. Spoke with Tom Engler (MBK Engineers), District Engineer, and he mentioned that a video inspection has been completed at this site and that a report is in progress. LMA will be seeking funding for pipe repair under DWR's Deferred Maintenance Project (DMP). Crossing remains Urgent due to the deteriorated condition of the pipe. (O. Magana - DWR UCIP)(O. Magana - DWR UCIP)06/30/2016 Corrosion still present on WS end. Inlet box was replaced 5 years ago and appears to be functioning properly due to the presence of a screen that prevents debris blockage. Flap gate functions properly only sometimes. WS heavily vegetated. (K. Fazel - UCIP) 03/25/2013 Corrosion holes on WS toe and flap gate is blocked by debris. Flap gate broken. Inlet partially blocked at concrete inlet. (G. Wylie - FPIIB) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 20 feet below the crown. Flap gate and headwall on the waterside (WS) end. 56-inch by 34-inch concrete inlet box on the landside (LS) toe. (Due to a recent change in the levee alignment, this pipe is no longer in RD0784, Unit 6. Nevertheless, this pipe's original references remain in the RD0784 Levee Log and O&M Manual). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 145.1, August 1955, (Station 43+17), As-Built Drawing No. 2-4-106, Sheet 4, (Station 43+17)]. FS Date: 10/30/2018 1:51:00 PM					

Photo 1 of 3 : UCIP\_FA\_2018\_53421\_53854.jpg



Pipe and flapgate at WS toe blocked by debris.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 South Dry Creek	Right	1.32	11/01/2018 11/01/2018	Sterling York

LM Start	0.68	Rating **	U	Issue No.	24 (cont)	
LM End	0.68	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.991062 °	38.991062 °	
				-121.499886 °	-121.499886 °	
DWR ID	22951					
Comment Code						
Inspector Comment						
FS_ID:53421 DS_ID:22951 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/30/2018 Same as last inspection. Pipe wall has corroded significantly (pipe wall missing) at the outlet. Spoke with Tom Engler (MBK Engineers), District Engineer, and he mentioned that a video inspection has been completed at this site and that a report is in progress. LMA will be seeking funding for pipe repair under DWR's Deferred Maintenance Project (DMP). Crossing remains Urgent due to the deteriorated condition of the pipe. (O. Magana - DWR UCIP)(O. Magana - DWR UCIP)06/30/2016 Corrosion still present on WS end. Inlet box was replaced 5 years ago and appears to be functioning properly due to the presence of a screen that prevents debris blockage. Flap gate functions properly only sometimes. WS heavily vegetated. (K. Fazel - UCIP) 03/25/2013 Corrosion holes on WS toe and flap gate is blocked by debris. Flap gate broken. Inlet partially blocked at concrete inlet. (G. Wylie - FPIIB) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 20 feet below the crown. Flap gate and headwall on the waterside (WS) end. 56-inch by 34-inch concrete inlet box on the landside (LS) toe. (Due to a recent change in the levee alignment, this pipe is no longer in RD0784, Unit 6. Nevertheless, this pipe's original references remain in the RD0784 Levee Log and O&M Manual). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 145.1, August 1955, (Station 43+17), As-Built Drawing No. 2-4-106, Sheet 4, (Station 43+17)]. FS Date: 10/30/2018 1:51:00 PM						

Photo 2 of 3 : UCIP\_FA\_2018\_53421\_53853.jpg



Holes in pipe at broken flapgate on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 South Dry Creek	Right	1.32	11/01/2018 11/01/2018	Sterling York

LM Start	0.68	Rating **	U	Issue No.	24 (cont)
LM End	0.68	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.991062 °	38.991062 °
				-121.499886 °	-121.499886 °
DWR ID	22951				
Comment Code					
Inspector Comment					
FS_ID:53421 DS_ID:22951 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/30/2018 Same as last inspection. Pipe wall has corroded significantly (pipe wall missing) at the outlet. Spoke with Tom Engler (MBK Engineers), District Engineer, and he mentioned that a video inspection has been completed at this site and that a report is in progress. LMA will be seeking funding for pipe repair under DWR's Deferred Maintenance Project (DMP). Crossing remains Urgent due to the deteriorated condition of the pipe. (O. Magana - DWR UCIP)(O. Magana - DWR UCIP)06/30/2016 Corrosion still present on WS end. Inlet box was replaced 5 years ago and appears to be functioning properly due to the presence of a screen that prevents debris blockage. Flap gate functions properly only sometimes. WS heavily vegetated. (K. Fazel - UCIP) 03/25/2013 Corrosion holes on WS toe and flap gate is blocked by debris. Flap gate broken. Inlet partially blocked at concrete inlet. (G. Wylie - FPIIB) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 20 feet below the crown. Flap gate and headwall on the waterside (WS) end. 56-inch by 34-inch concrete inlet box on the landside (LS) toe. (Due to a recent change in the levee alignment, this pipe is no longer in RD0784, Unit 6. Nevertheless, this pipe's original references remain in the RD0784 Levee Log and O&M Manual). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 145.1, August 1955, (Station 43+17), As-Built Drawing No. 2-4-106, Sheet 4, (Station 43+17)]. FS Date: 10/30/2018 1:51:00 PM					

Photo 3 of 3 : UCIP\_FA\_2018\_53421\_53852.jpg



Improvised concrete inlet on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 South Dry Creek	Right	1.32	11/01/2018 11/01/2018	Sterling York

LM Start	0.77	Rating **	C	Issue No.	19
LM End	0.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.991879 °	38.991879 °
				-121.498688 °	-121.498688 °
DWR ID	DWR_RD0817_03_f_2016_19				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Tree limbs have been trimmed for access and visibility. Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 South Dry Creek	Right	1.32	11/01/2018 11/01/2018	Sterling York

LM Start	1.18	Rating **	U	Issue No.	26 (cont)
LM End	1.18	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.995852 °	38.995852 °
				-121.493111 °	-121.493111 °
DWR ID	22952				

**Comment Code**

**Inspector Comment**

FS\_ID:53422

DS\_ID:22952

EP\_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/30/2018 Same as last inspection. Pipe has deteriorated significantly and is no longer used as noted in the 2016 inspection. Spoke with Tom Engler with MBK, District Engineer, and he mentioned that a video inspection has been completed and that a report is in progress. LMA will be seeking funding to address pipe under DWR's Deferred Maintenance Project (DMP). Crossing remains Urgent due to the deteriorated condition of the pipe. (O. Magana - DWR UCIP)06/30/2016 Same as last inspection. Good candidate for removal via DWR's Deferred Maintenance Program. Pipe used to drain pastureland which have since been converted to rice fields that drain on opposite side of fields, rendering the drainage function of this pipe obsolete. This pipe is not needed and causes nuisance flooding at high water on landside (LS) per Tom Engler of MBK. As such, operation of flapgate is still blocked via a post at WS end. Pipe is sleeved but sleeve has grossly deteriorated. LS end of pipe appears bent. (K. Fazel - UCIP)03/25/2013 Pipe heavily corroded and damaged. 8-inch PVC pipe runs through pipe/possibly for irrigation. CMP heavily rusted on WS toe and debris blocking flap gate on WS toe. (G. Wylie - FPIIB) FIELD\_STRUCT\_DESC: \*ABANDONED\* 20-inch corrugated metal gravity drainage pipe through the levee, 16.5 feet below the crown. 8-inch polyvinyl chloride (PVC) pipe sleeved through the 20-inch corrugated metal pipe with the annular space left void. Flap gate on the waterside (WS) end. (Due to a recent change in the levee alignment, this pipe is no longer in RD0784, Unit 6. Nevertheless, this pipe's original references remain in the RD0784 Levee Log and O&M Manual). [Additional Reference(s): DWR Levee Log, 2005, 24-inch corrugated metal pipe (CMP) referenced. USACE Sacramento O&M Manual 145.1, August 1955, (Station 69+17), 18-inch CMP referenced, As-Built Drawing No. 2-4-106, Sheet 4, (Station 69+17)].

FS Date: 10/30/2018

Photo 2 of 3 : UCIP\_FA\_2018\_53422\_53856.jpg



Pipe cut behind flap gate on WS toe with 8-inch PVC.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 South Dry Creek	Right	1.32	11/01/2018 11/01/2018	Sterling York

LM Start	1.18	Rating **	U	Issue No.	26 (cont)
LM End	1.18	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.995852 °	38.995852 °
				-121.493111 °	-121.493111 °
DWR ID	22952				

**Comment Code**

**Inspector Comment**

FS\_ID:53422

DS\_ID:22952

EP\_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/30/2018 Same as last inspection. Pipe has deteriorated significantly and is no longer used as noted in the 2016 inspection. Spoke with Tom Engler with MBK, District Engineer, and he mentioned that a video inspection has been completed and that a report is in progress. LMA will be seeking funding to address pipe under DWR's Deferred Maintenance Project (DMP). Crossing remains Urgent due to the deteriorated condition of the pipe. (O. Magana - DWR UCIP)06/30/2016 Same as last inspection. Good candidate for removal via DWR's Deferred Maintenance Program. Pipe used to drain pastureland which have since been converted to rice fields that drain on opposite side of fields, rendering the drainage function of this pipe obsolete. This pipe is not needed and causes nuisance flooding at high water on landside (LS) per Tom Engler of MBK. As such, operation of flapgate is still blocked via a post at WS end. Pipe is sleeved but sleeve has grossly deteriorated. LS end of pipe appears bent. (K. Fazel - UCIP)03/25/2013 Pipe heavily corroded and damaged. 8-inch PVC pipe runs through pipe/possibly for irrigation. CMP heavily rusted on WS toe and debris blocking flap gate on WS toe. (G. Wylie - FPIIB) FIELD\_STRUCT\_DESC: \*ABANDONED\* 20-inch corrugated metal gravity drainage pipe through the levee, 16.5 feet below the crown. 8-inch polyvinyl chloride (PVC) pipe sleeved through the 20-inch corrugated metal pipe with the annular space left void. Flap gate on the waterside (WS) end. (Due to a recent change in the levee alignment, this pipe is no longer in RD0784, Unit 6. Nevertheless, this pipe's original references remain in the RD0784 Levee Log and O&M Manual). [Additional Reference(s): DWR Levee Log, 2005, 24-inch corrugated metal pipe (CMP) referenced. USACE Sacramento O&M Manual 145.1, August 1955, (Station 69+17), 18-inch CMP referenced, As-Built Drawing No. 2-4-106, Sheet 4, (Station 69+17)].

FS Date: 10/30/2018

Photo 3 of 3 : UCIP\_FA\_2018\_53422\_53855.jpg



Pipe heavily corroded throughout.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 South Dry Creek	Right	1.32	11/01/2018 11/01/2018	Sterling York

LM Start	1.29	Rating **	U	Issue No.	27
LM End	1.29	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.997048 °	38.997048 °
				-121.491743 °	-121.491743 °
DWR ID	22953				

**Comment Code**

**Inspector Comment**

FS\_ID:53423

DS\_ID:22953

EP\_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/30/2018 Same as last inspection. Pipe has large sections of its wall missing due to heavy corrosion on both the WS and the LS. Sink hole visible on LS along pipe alignment. Spoke with Tom Engler with MBK, District Engineer, and he mentioned that a video inspection has been completed and that a report is in progress. LMA will be seeking funding for pipe repair under DWR's Deferred Maintenance Project (DMP). Crossing remains Urgent due to the deteriorated condition of the pipe. (O. Magana - DWR UCIP)06/30/2016 Sink hole still exists over pipe on LS. LS and WS heavily vegetated and barely accessible. WS end is sleeved with a heavily rusted CMP. Flapgate is clear and functional. (K. Fazel - UCIP)12/17/2015 WS accessible, but LS no longer accessible due to heavy vegetation. (T. Hatch - UCIP)03/25/2013 Pipe visible on LS at toe of roadway embankment, but not visible on WS. Possible sinkhole over pipe at LS toe. Pipe heavily rusted. (G. Wylie - FPIIB)

FIELD\_STRUCT\_DESC: 18-inch corrugated metal gravity drainage pipe angled through the levee, approximately 15 feet below the crown. Steel pipe sleeved through the 18-inch corrugated metal pipe (CMP) with annular space grouted, grout only on the waterside (WS). Flap gate on the WS end. Pipe alignment is from the west of the intersection of Forty Mile Road and 45 degrees to the WS. Outlet is on the eastern side of Forty Mile Road, looking upstream. (Due to a recent change in the levee alignment, this pipe is no longer in RD0784, Unit 6. Nevertheless, this pipe's original references remain in the RD0784 Levee Log and O&M Manual). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 145.1, August 1955, (Station 74+72), As-Built Drawing No. 2-4-106, Sheet 4, (Station 74+72)].

FS Date: 10/30/2018

Photo 1 of 3 : UCIP\_FA\_2018\_53423\_53859.jpg



Pipe at inlet on LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 South Dry Creek	Right	1.32	11/01/2018 11/01/2018	Sterling York

LM Start	1.29	Rating **	U	Issue No.	27 (cont)
LM End	1.29	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.997048 °	38.997048 °
				-121.491743 °	-121.491743 °
DWR ID	22953				
Comment Code					
Inspector Comment					
FS_ID:53423 DS_ID:22953 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/30/2018 Same as last inspection. Pipe has large sections of its wall missing due to heavy corrosion on both the WS and the LS. Sink hole visible on LS along pipe alignment. Spoke with Tom Engler with MBK, District Engineer, and he mentioned that a video inspection has been completed and that a report is in progress. LMA will be seeking funding for pipe repair under DWR's Deferred Maintenance Project (DMP). Crossing remains Urgent due to the deteriorated condition of the pipe. (O. Magana - DWR UCIP)06/30/2016 Sink hole still exists over pipe on LS. LS and WS heavily vegetated and barely accessible. WS end is sleeved with a heavily rusted CMP. Flapgate is clear and functional. (K. Fazel - UCIP)12/17/2015 WS accessible, but LS no longer accessible due to heavy vegetation. (T. Hatch - UCIP)03/25/2013 Pipe visible on LS at toe of roadway embankment, but not visible on WS. Possible sinkhole over pipe at LS toe. Pipe heavily rusted. (G. Wylie - FPIIB) FIELD_STRUCT_DESC: 18-inch corrugated metal gravity drainage pipe angled through the levee, approximately 15 feet below the crown. Steel pipe sleeved through the 18-inch corrugated metal pipe (CMP) with annular space grouted, grout only on the waterside (WS). Flap gate on the WS end. Pipe alignment is from the west of the intersection of Forty Mile Road and 45 degrees to the WS. Outlet is on the eastern side of Forty Mile Road, looking upstream. (Due to a recent change in the levee alignment, this pipe is no longer in RD0784, Unit 6. Nevertheless, this pipe's original references remain in the RD0784 Levee Log and O&M Manual). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 145.1, August 1955, (Station 74+72), As-Built Drawing No. 2-4-106, Sheet 4, (Station 74+72)]. FS Date: 10/30/2018					

Photo 2 of 3 : UCIP\_FA\_2018\_53423\_53858.jpg



Sinkhole or animal burrow over pipe on LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 South Dry Creek	Right	1.32	11/01/2018 11/01/2018	Sterling York

LM Start	1.29	Rating **	U	Issue No.	27 (cont)
LM End	1.29	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.997048 °	38.997048 °
				-121.491743 °	-121.491743 °
DWR ID	22953				
Comment Code					
Inspector Comment					
FS_ID:53423 DS_ID:22953 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/30/2018 Same as last inspection. Pipe has large sections of its wall missing due to heavy corrosion on both the WS and the LS. Sink hole visible on LS along pipe alignment. Spoke with Tom Engler with MBK, District Engineer, and he mentioned that a video inspection has been completed and that a report is in progress. LMA will be seeking funding for pipe repair under DWR's Deferred Maintenance Project (DMP). Crossing remains Urgent due to the deteriorated condition of the pipe. (O. Magana - DWR UCIP)06/30/2016 Sink hole still exists over pipe on LS. LS and WS heavily vegetated and barely accessible. WS end is sleeved with a heavily rusted CMP. Flapgate is clear and functional. (K. Fazel - UCIP)12/17/2015 WS accessible, but LS no longer accessible due to heavy vegetation. (T. Hatch - UCIP)03/25/2013 Pipe visible on LS at toe of roadway embankment, but not visible on WS. Possible sinkhole over pipe at LS toe. Pipe heavily rusted. (G. Wylie - FPIIB) FIELD_STRUCT_DESC: 18-inch corrugated metal gravity drainage pipe angled through the levee, approximately 15 feet below the crown. Steel pipe sleeved through the 18-inch corrugated metal pipe (CMP) with annular space grouted, grout only on the waterside (WS). Flap gate on the WS end. Pipe alignment is from the west of the intersection of Forty Mile Road and 45 degrees to the WS. Outlet is on the eastern side of Forty Mile Road, looking upstream. (Due to a recent change in the levee alignment, this pipe is no longer in RD0784, Unit 6. Nevertheless, this pipe's original references remain in the RD0784 Levee Log and O&M Manual). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 145.1, August 1955, (Station 74+72), As-Built Drawing No. 2-4-106, Sheet 4, (Station 74+72)]. FS Date: 10/30/2018					

Photo 3 of 3 : UCIP\_FA\_2018\_53423\_74804.jpg



WS drainage outlet with flap gate. Steel pipe is sleeved within heavily rusted CM pipe near daylight to embankment

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
N/A : Not Applicable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement